

# ecology and environment, inc.

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International Specialists in the Environment

## HEHORANDUH

DATE:	JAN. 9, 1989
TO:	Villiam Hessenger, Chief Pre-Remedial Unit
FROM:	Jerome D. Oskvarek, FIT Office Manager
SUBJECT:	Screening Site Inspection Transmittal Memorandum CERCLIS Site Name: Name Cazaran
	City: BROOKPARK
	State: OHO
	U.S. EPA ID No.: OHD981957913
•	SSID No.: NONE
	TDD No.: F05-8708-023
	PAN: FOHO7325A

THIS DOCUMENT IS CONFIDENTIAL. Due to the predecisional nature of this memorandum, this memorandum and its attachments are not to be released. The draft final (circle) Screening Site Inspection (SSI) report accompanies this transmittal memorandum and its attachments. Based on the information gathered during the SSI and other available information, the FIT has recalculated the preliminary and projected ERS 1 scores, and determined the ERS 2 factor value for the site. These scores and factor values are presented below.

US EPA RECORDS CENTER REGION 5

### HRS 1 PRELIMINARY AND PROJECTED SCORES

PRELIMINARY HRS SCORE BASED ON THE SCREENING SITE INSPECTION (SSI) (This score is based on information from the screening site inspection.)  $S_{H} = \bigcirc \qquad S_{DC} = \bigcirc$ 

PROJECTED HRS SCORE FOR A LISTING SITE INSPECTION (LSI) (This score is based on the expected acquisition of information from the listing site inspection.)

 $S_{H} = O$   $S_{DC} = O$ 

HRS 1 score worksheets are attached to this memorandum.

#### HRS 2 FACTOR VALUE

Factor	Factor Val	Lue	Observed Human Exposure
Vaste Characteristics	17	 (100)	(X)
Air Pathvay	7.8	(100) (100)	
Groundwater Pathvay	10	<u>(100)</u>	
Surface Water Pathway	15	(100)	
On-site Pathway	56	(100)	
	in the second		
TOTAL HRS 2 FACTOR VALUE	176	(500)	

HRS 2 factor value worksheets are attached to this memorandum.

## IMMEDIATE ACTION

In addition to the HRS related information, we have evaluated this site for the need for immediate removal action as a result of a substantial threat to either human health or the environment. (Select one)

The site <u>does</u> present a threat which requires immediate removal action.

The site <u>does not</u> present a threat which requires immediate removal action.

## RECOMMENDATIONS

Based on the HRS related information and the evaluation of the immediate removal threat, the FIT concludes from its activities the following (select one):

$\vee$	•	mi ma di sancia
	1.	The HRS 1 scores are below 25.00; therefore, the site
		should be designated as a NFRAP facility.
	2.	The HRS 1 scores are equal to or exceed 25.00;
		however, due to extenuating circumstances (i.e.,
		ongoing clean-up) the site should not be designated
		for LSI activities.
	3.	The HRS 1 scores are equal to or exceed 25.00. As a
		result, we recommend that the site be designated as a
		potential LSI candidate. The FIT anticipates that the
		following activities would be required during the LSI
		in order to establish a sufficient data base to
		successfully list the facility on the NPL.
		a. Installation of monitoring wells.
		b. Air sampling.
		c. Further sampling of surface water.
		d. Further waste characterization.
		e. More extensive sampling of residential wells and
		municipal wells.
		f. Collect additional soil samples.
		g. Perform geophysics.
		h. Conduct area survey.
		i. Other:

## COMMENTS

The FIT would like to make the following additional comments concerning the site.

Non	C	
		-
	<del></del>	
<del></del>		
	7	
	<del></del>	
	<u> </u>	and the state of
	<del></del>	<del></del>

0606:4

# SCREENING SITE INSPECTION PRELIMINARY AND PROJECTED HAZARD RANKING SYSTEM REVISED SCORE WORKSHEETS

Site Name:	NAIMAN CARAYA	(Cerclis Name)
		(a.k.a.)
Address:	6410 \$6427 EAST	RAND ROAD
City/County/Stat	e/Zip: Brook Park/Cuya	HOGA /OHIO/44142
Cerclis ID:	OHD981957913	
Prepared by:	DIEK KAISETZ, E&E	Date: 7/20/38
Reviewed by:	,E&E	Date:
TDD:	F05-8708-073	PAN: FOH073254
	the second second second	
SCREENING ST	TE INSPECTION (SSI) PRELIMINA	ARY HRS SCORE
S <sub>M</sub>	s <sub>FE</sub> O	Spc=
LISTING SITE IN	ISPECTION (LSI) PROJECTED H	RS SCORE
S <sub>M</sub>	<u> </u>	S <sub>DC</sub> *

# SCREENING SITE INSPECTION (SSI) PRELIMINARY HRS SCORE

(This score is based on information from the SSI.)

	s	s²
Groundwater Route (Sgw=)	0	0
Surface Water Route (S <sub>SW</sub> =)	0	0
Air Route (S <sub>a</sub> =)	0	0
$S_{gw}^2 + S_{sw}^2 + S_a^2$		0
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2}$		0
$\sqrt{S_{gW}^2 + S_{sW}^2} + S_a^2 / 1.73 = S_M =$		0

# LISTING SITE INSPECTION (LSI) PROJECTED HRS SCORE

(This score is based on the expected acquisition of information from the LSI.)

	s	S <sup>2</sup>
Groundwater Route (Sgw=)	0	0
Surface Water Route (S <sub>sw</sub> =)	0	0
Air Route (Sa =)	0	0
$S_{gw}^2 + S_{sw}^2 + S_a^2$		0
$\sqrt{S_{yw}^2 + S_{yw}^2 + S_a^2}$		0
$\sqrt{S_{yw}^2 + S_{sw}^2 + S_{a}^2 / 1.73} = S_{M} =$		0

# **GROUNDWATER ROUTE**

SCREEN	IING SITE INSPECTION				
	(This score is based on		on from t	he SSI.)	
Rating Factor	Assigned Value (Circle One)	Multi- plier	Score	Description	Ref. #
1 Observed Release	0 45	x1	0		
If Observed Release If Observed Release	scores 45 proceed to line 4 scores 0 proceed to line 2				
2 Route Characteristic	×			Aquiler Description:	
Depth to Aquifer of concern	0 1 23	<b>x</b> 2	6	2 ft.	1
Net Precipitation	0(1)2 3	x1	1	Precip. 5" NGT Evap.	2
Permeability of t Unsaturated Zo	he 0(1)2 3	x1	1	10 cm/sec	1
Physical State	0(1)2 3	<b>x</b> 1	t	Sous	
	Total Route Characteristic	≈ Score	9		
3 Containment	0 1 2(3)	х1	M	UHUNGO	
4 Waste Characteristic	*				
Persistence 0					,
Toxicity 1 3	0 0 0 6 9 12	ı			
2 6	9 12 15 12 15 (8)	x 1	13	LAB DATA	1
Haz. Waste Quan		<b>x</b> 1	l	UNKNOWY	
	Total Waste Characteristic	⇔ S∞re	19		
5 Targets					
Groundwater Use Distance to		хЗ	0		
Nearest Well					
Population	0 4 6 8 10 2 0 8 12 16 20 3 0 12 18 24 30				
Served 7	0 16 24 32 35	x 1	0		
	Total Targets Score		0		
6 If line 1 is 45, multi					
	y 2 x 3 x 4 x 5				
Divide line 6 by	57,330 and multiply by 100		Sgw=	0	

# **GROUNDWATER ROUTE**

	G SITE INSPECTION ( e is based on the expected	•			
Rating Factor	Assigned Value (Circle One)	Multi- plier	Score	Description	Ref. #
1 Observed Release	0 45	<b>x</b> 1	0		
If Observed Release self Observed Release se	cores 45 proceed to line 4 cores 0 proceed to line 2		·		
2 Route Characteristics			· · · · · · · · · · · · · · · · · · ·	Aquiter Description:	
·					
Depth to Aquifer of concern	0 1 2 🕄	x2	6	2 11.	T
Net Precipitation	0 🕖 2 3	x1		Precip. 5"NOT Evan.	2
Permeability of the Unsaturated Zone	0023	<b>x</b> 1	(_	10 cm/sec	
Physical State	0 672 3	x1	1	Soud	l
	Total Route Characteristic	s Score	9		
3 Conțainment	0 1 2(3)	<b>x</b> 1	3	UHLHOD	1
4 Waste Characteristics	<del></del>				
Persistence 0	1 2 3				
Toxicity 0 0 0 2 6 3 9	0 0 0 6 9 12 9 12 15 12 15 18	1	10	1 > 2 > 2	
		×1	18	LAB DATA	
Haz. Waste Quantit	ty 0(1)2345678	x 1	1	Unknown	
	Total Waste Characteristic	≲ S∞re	19		
5 Targets					
Groundwater Use Distance to	<b>6</b> 71 2 3	<b>x</b> 3	0		
Nearest Well	0 1 2 3 4	•			
Population 2	0 4 6 8 10 0 8 12 16 20				
Served 3	0 12 18 24 30 0 16 24 32 35	- 4			
5	0 20 30 35 40	× 1	0		*********
	Total Targets Score		0		
6 tf line 1 is 45, multipl		-,			
ff line 1 is 0, multiply	5x 3x (1 x 2		0		
Divide line 6 by	57,330 and multiply by 100		Sgw=	O	

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# SURFACE WATER ROUTE

SCREENING SITE INSPECTION (SSI) PRELIMINARY HRS SCORE					
	(This score is based on in		from the	SSI.)	<del></del>
Rating Factor	Assigned Value (Circle, One)	Multi- plier	Score	Description	Ref. #
1 Observed Release	(T) 45	x 1	0		
If Observed Release If Observed Release	scores 45 proceed to line 4 scores 0 proceed to line 2				
2 Route Characteristic	s Intervening Terrain			Facil & SUPPLUCE	HzO
	0 0 0 0 3 acility 0 1 1 2 3	x 1	3	Interv%	1
s	Slope 0 1 2 2 3 0 2 2 3 3 0 2 3 3(3)	•			*********
1-yr. 24 hr Rain		x 1	2	7.2 in.	2
Distance to Near Surface Wate		x 2	6	ADISCOUT TO SW	1
Physical State	0 (1) 2 3	x1	1	Sould	
	Total Route Characteristic	cs Score	12		
3 Containment	<b>1</b> 2 3	x 1	0	CURY CAPPOD	(.   :
4 Waste Characteristic	<b>3</b>				**********
Persistence 0					
Toxicity 0 0	0 0 0 0 0 12	ſ			
2   6 3   9	9 12 15 1 12 15 (B)	x1	18	LAS DATS	*
Haz. Waste Quan	ntity 0 002 3 4 5 6 7 8	x1	1	UNKHOMH	
	Total Waste Characteristic	cs Score	19		
5 Targets					
Surface Water Use	1 ~	<b>x</b> 3	0	RECREATION	:
Dist. to Sensitive Environment	0 (0) ≥ 3 Distance to Water	x2	2		
	lotake Downstream	ι			
Populat	10 4 6 8 10 tion 0 8 12 16 20				
Serve	tion 0 8 12 16 20 d 0 12 18 24 30	Г			<b></b>
	d 0 12 18 24 30 0 16 24 32 35 0 20 30 35 40	x 1	0	No INTAKES	
	Total Targets Score		8		
6 If line 11 is 45, multip			$\overline{}$	//////////////////////////////////////	
If line 1 is 0, multipl	y 2 x 3 x 4 x 5				
Divide line 6 by 64,	,350 and multiply by 100	Ssw=	0		

## SURFACE WATER ROUTE

LISTING .	SITE INSPECTION (LS s based on the expected a	SI) PRO	JECTED	HRS SCORE	
Rating Factor	Assigned Value (Circle One)	Multi- plier	Score	Description	Ref. #
1 Observed Release	<b>(5)</b> 45	x 1	0		
	cores 45 proceed to line 4 cores 0 proceed to line 2	<b>S</b>			
2 Route Characteristics	Intervening Terrain			Facil % Surface	
1	0 0 0 0 3 cility 0 1 1 2 3	x 1	3	Interv %	1
Slo	0 1 2 2 3 0 2 2 3 3 0 2 3 3 3				
1-yr. 24 hr Rainfa	, , –	x 1	2	7.2 in.	2-
Distance to Neares Surface Water	st 0 1 23	x2	6	ADJOCOUT TO SW	19
Physical State	0(D2 3	x1	1	Socie	
	Total Route Characteristic	cs Score	12		
3 Containment	<b>1</b> 2 3	<b>x</b> 1	0	CLAY CAPPED	]
4 Waste Characteristics					
Persistence 0  Toxicity 1 3	1 2 3	_			
Toxicity 1 3 2 6 3 9	6 9 12 9 12 15 12 15 (18)	, x1	18	Los Dans	
Haz. Waste Quantit		x1	1	UMENOWA	
	Total Waste Characteristic	cs Score	19		
S Targets					
Surface Water Use	<b>Y</b>	<b>x3</b>	0	RECEDENCE	
Dist. to Sensitive Environment	0 (5)2 3 Distance to Water	x2	2	WOTLENDS	=
	Intake Downstream 0 0 0 0 0 0 4 6 8 10				
Populatio Served	on 0 8 12 16 20 0 12 18 24 30	•			
••••	0 16 24 32 35 0 20 30 35 40	x 1	0	No lutakes	
	Total Targets Score		8		
If line 1 is 0, multiply	y 1 x 4 x 5 2 x 3 x 4 x 5		0		
7 Divide line 6 by 64,3	150 and multiply by 100	S <sub>sw</sub> =	0		

# AIR ROUTE

SCREENING SITE INSPECTION (SSI) PRELIMINARY HRS SCORE (This score is based on information from the SSI.)					
Rating Factor	Assigned Value (Circle One)	Multi- plier	Score	Description	Ref. #
1 Observed Release	0 45	x1			
If line 1 is 0, the S	a=0. Enter on line 5 proceed to line 2				
2 Waste Characteristi					
Reactivity & Incompatability	0 1 2 3	x1			
Toxicity	0 1 2 3	x3			
Haz. Waste Quan	tity 0 1 2 3 4 5 6 7 8	x1			
·	Total Waste Characterist	tics Score			
3 Targets Population within 4-mile Radius Distance to Sensit Environment Land Use	Dist to Population  0 0 0 0  9 12 15 18  12 15 18 21  15 18 21 24  18 21 24 27  21 24 27 30  1 2 3  0 1 2 3	x1 x2 x1			
4 Multiply 1 x 2 x	Total Targets Score				
Divide line 4 by 3	5,100 and multiply by 100		S <sub>a</sub> =	0	

THE SITE IS SECURELY COVERED WITH AN INTACT
CLAY CAP.

# AIR ROUTE

	SITE INSPECTION ( is based on the expected									
Rating Factor	Assigned Value (Circle One)	Multi- plier	Score	Description	Ref. #					
1 Observed Release	0 45	χi								
If line 1 is 0, the Sa=0 If line 1 is 45, then pro	If line 11 is 0, the Sa=0. Enter on line 5 If line 11 is 45, then proceed to line 2									
2 Waste Characteristics					111411414141 1114141414141 1114141414					
Reactivity & Incompatability	0 1 2 3	x1								
Toxicity	0 1 2 3	x3								
Haz. Waste Quantity	0 1 2 3 4 5 6 7 8	<b>x</b> 1	_							
[	Total Waste Characteristic	≈ S∞re								
3 Targets Population within - 4-mile Radius Po	18 21 24 27	x 1								
Distance to Sensitive Environment	21 24 27 30 0 1 2 3	x 2								
Land Use	0 1 2 3	x 1								
	Total Targets Score									
Multiply 1 x 2 x 3										
Divide line 4 by 35,10	00 and multiply by 100		S <sub>a</sub> = (	)						

THE SITE IS SECURELY COVORED WITH AN INTECT CLAY CAP.

## FIRE AND EXPLOSION

SCREENING SITE INSPECTION (SSI) PRELIMINARY HRS SCORE (This score is based on information from the SSL)										
Rating Factor	Assigned Value   Multi-				Score	Description Ref. #				
1 Containment	0			3				<b>x1</b>		
2 Waste Characteristics									<u> </u>	
Direct Evidence	0			3				x 1		
Ignitability	0	1	2	3				x 1		
Reactivity	0	1	2	3				<b>x</b> 1		
Incompatability	0	1	2	3				<b>x</b> 1		
Haz. Waste Quantity	0	1 2	3	4	5 (	5 7	8	<b>x</b> 1		
J	Total	Wa	aste	CI	hara	acte	ristic	⇒ Score		
3 Targets		-					•		<u> </u>	7
Dist. to Nearest Pop.		0	1	2	3	4	5	<b>x</b> 1		
Dist. to Nearest Bldg.	(	0	1	2	3			<b>x</b> 1		
Dist. to Sensitive Env	·. (	<b>)</b>	1	2	3			x 1		
Land Use	(	)	1	2	3			x 1	<b></b>	
Pop. Within 2 miles	(	)	1	2	3	4	5	<b>x</b> 1		
Bldgs. Within 2 miles	C	)	1	2	3	4	5	x 1		
	Г	ota	l Ta	arg e	ots	S∞	re	-		
4 Multiply 1 x 2 x 3										
Divide line 4 by 1,440	Divide line 4 by 1,440 and multiply by 100 $S_{\text{FE}} = O$									

ACCORDING TO SEFETY MONITORING EQUIPMONT AND & LOCAL FIRE OFFICAL; THE SITE POSES NO FIRE OR EXPLOSION THREAT,

## FIRE AND EXPLOSION

									TED HRS SCORE  ormation from the LSL)		
Rating Factor	As	sign Sircle	ed V	alue			Multi- plier	Score	Description Ref. #		
1 Containment	0		3	3			x1				
2 Waste Characteristics	·										
Direct Evidence	0		3	}			x 1				
Ignitability	0 1	2	2 3	}			x1				
Reactivity	0 1	2	3	1			x 1				
Incompatability	0 1	2	· 3	3			x 1				
Haz. Waste Quantity	0 1	2 3	4	5 (	5 7	8	· x1				
· T	otal \	Nast	e C	hara	acte	ristic	s Score				
3 Targets					•						
Dist. to Nearest Pop.	0	1	2	3	4	5	x 1		·		
Dist. to Nearest Bldg.	0	1	2	3			x 1				
Dist. to Sensitive Env.	0	1	2	3			x 1				
Land Use	0	1	2	3			x 1				
Pop. Within 2 miles	0	1	2	3	4	5	<b>x</b> 1				
Bldgs. Within 2 miles	0	1	2	3	4	5	x 1				
Total Targets Score											
Multiply 1 x 2 x 3											
Divide line 4 by 1,440	and	mult	ipły	by	100		S	E <b>*</b>	·		

ACCORDING TO SAFETY MONITORNIG EQUIPMENT AUG A
LOCAL FIRE OFFICAL! THE SITE POSES NO FIRE OR
EXPLOSION THREAT.

# DIRECT CONTACT

SCREE	SCREENING SITE INSPECTION (SSI) PRELIMINARY HRS SCORE (This score is based on information from the SSI.)									
Rating Factor	Assigned Value (Circle One)	Multi- plier	Score	Description	Ref. #					
1 Observed Incident	0 45	x1	0							
If line 1 is 45, proce	eed to line 4									
2 Accessibility	1 2 3	x1	3	No Fauce	1.					
3 Containment	<b>6</b> 15	x 1	0	Cury Con	1					
4 Waste Characteristi	ics									
Toxicity	0 1 2 3	x 5	15	LAS DATA	1					
5 Targets										
Pop. Within 1 mile	0 1 2 3 4 (5)	> x4	20	00/41 م						
Dist. to Crit. Habi	itat 0 1 2 3	×4	0							
	Total Targets Score	,	20							
6 If line 1 is 45, multip	tiply 1 x 4 x 5 bly 2 x 3 x 4 x 5		0							
Divide line (d by 2	1,600 and multiply by 100	S <sub>C</sub>	x= 0							

# DIRECT CONTACT

	LISTING SITE INSPECTION (LSI) PROJECTED HRS SCORE (This score is based on the expected acquisition of information from the LSI.)										
Rating Factor	Assig	ned Value de One)	Multi- plier	Score	Description	Ref. #					
1 Observed Incident	0	45	x1	0		_					
If line 1 is 45, proce If line 1 is 0, proce	eed to line	2									
2 Accessibility	0 1	2(3)	<b>x</b> 1	3	No Faxe	1.					
3 Containment	0	15	<b>x</b> 1	0	CLAY CAP	1/15					
4 Waste Characteristi	cs										
Toxicity	0 1	2 ③	x 5	15	LAS DATE						
5 Targets	_										
Pop. Within 1 mile	0 1	2 3 4 5	x4	20	N14,00	1.					
Dist. to Crit. Habi	tat (1)	2 3	<b>x4</b>	0							
·	Tota	Targets Score		20							
6 E line 1 is 45, multi N line 1 is 0, multip			0								
Divide line (d by 2	1,600 and r	nuttiply by 100	S <sub>C</sub>	c= 0							

## HRS 2 FACTOR VALUE SUMMARY SHEET

Factor	Factor Value	Observed <u>Human Exposure</u> (X)
Vaste Characteristics	17 (100)	
Air Pathway	<u>78</u> (100)	
Groundvater Pathway	[0] (100)	
Surface Vater Pathvay		
On-site Pathvay	56 (100)	
TOTAL ERS 2 FACTOR VALUE	<u>  126 (500)</u>	

### WASTE CHARACTERISTICS

			Yes (x)	Reference	Factor Value
1.	<b>(a)</b>	Are CONTAINERS open, unsealed, or	177		0 (5)
	(b)	non-intact? Is there evidence of contaminant			(3)
		migration away from the containers?			(5)
	(c)	Is the source(s) unlined or does it			δ
		have unsound diking?			(5)
2.	(a)	Does the LANDFILL have exposed			
	•	waste, or is the landfill uncovered	•		
		or is the landfill covered with			
		contaminated soil, non-intact cover			$\boldsymbol{\rho}$
		or cover less than 1 inch?		<del></del>	(5)
	(6)	Is there evidence of contaminant migration away from the source?			D
	(~)	Is there an absence of a liner, a		<del></del>	(3)
	(0)	run-on or runoff management system			
		or leachate collection and removal			
		system?	<u>X</u>		5 (5)
3.	(a)	Is the SURFACE IMPOUNDMENT wet			
		and non-enclosed?			0 (5)
٠	(b)	Is there evidence of contaminant		•	
		migration away from the source?		<del></del>	<u>U</u> (5)
	(c)	Is there so liner or diking?			(5)
4.	(=)	Is the PILE uncovered, or is the			•
		pile covered with contaminated soil,	•		
		non-intact cower or cover less than			0
		1 inch?			(5)
	(P)	Is there an absence of a function-			
	•	ing run-on or runoff management			
		system or leachate collection system?			0
	(c)	Is there an absence of a liner?			(5)
	•••				(3)
5.		answer highest factor value			
		the following questions:			
	(a)	Is constituent data available	V	<b>1</b> ·	10
	11.4	for vaste?	X		10 (10)
	(0)	Is waste quantity as deposited information available?			<i>(</i> )
	(c)	Is disposal volume known?		<del></del>	$\frac{1}{D} \stackrel{(8)}{(4)}$
		Is disposal area known?			0 (2)
	•				

...Continued

MASTE CHARACTERISTICS (Continued)

6. Complete the table for all sources at the site. Calculate Waste Quantity score and record summation to a maximum value of 30.

Conteminated Soil		•	1,125,000	F	
[[]]bael	0626E1	٠	399,28	-	٤0'2
JnestaelT bnal		1	000,TS	1	
Surface Impoundment	<del>                                     </del>	•	SCE	-	
Drums/Non-drum Conteiner		٠	ses .	-	<del></del>
•liq	,	•	50	-	
Source	Surface Area (ft2)	•	Divisor	-	Weste Quentity Score

(xon0E) 0.5 0.5 Le303

Fotal Meste Cheracteristics [100]

#### AIR PATEWAY

Factor Reference **Value** 1. Only assign factor value for (a) or (b). (x) choosing the higher value: . (a) Is there a residence or regularly occupied building between 0 to 1/8 mile from a potential source(s)? (b) Is there a residence or regularly occupied building between 1/8 to 2 miles from a potential source(s)? 2. Complete (a) and (b) and assign the higher fector value: (a) If documented contamination of air, answer yes and assign factor value of 75. (b) Calculate potential population and assign factor value as given below:

Distance (mile)	Population	×	Distance Weighting Factor	-	Subtotal
Onsite	0	×	1.642	•	0
0-1/4	225	×	0.323	•	73
1/4-1/2	279	×	0.056	•	16
1/2-1	2186	×	0.017	•	37
1-2	7503	×	0.005	•	33
2-3	15276	×	0.003	-	46
3-4	38711	×	0.002	-	77

Total <u>787</u> x 1 = <u>3</u> (75max)

#### GROUNDWATER PATEWAI

				OROUMORNIER TRIBUNA	•			<b>-</b>
					Y+s	Referen	<u>c•</u>	Value
1.		pth to the ac	quif	er of concern	X		_	5 (5)
2.	is the waste compo	and the aqui	ifer intly	lel between the of concern y of sands, gravels,	· 🗸	- 1		<b>5</b> (5)
	(b) Within is the condu	ctivity laye	the of a					(-15)
			•			<del></del>	-	(-15)
3.	choosing	the <u>higher</u> v	alue ng w	iter well(s) in the				
	_	fer of concert 1/2 mile from		a more shallow unit source(s)?	: 			<u>O</u> (20)
	aquii		o o c	ater well(s) in the a more shallow unit he source(s)?				O (5)
۷.				a karst unit?			<u> </u>	0(10)
5.	Is the ac	quifer of con-	ce cu	e sole				<u>O</u> (5)
٤.	factor ve	alue:		assign the <u>higher</u>	rate	r		
	essiq (b) Calcu	yn a factor vo ulate potentio	alue al p				- -	<u>O</u> (50)
_	Bour	דוטאל טאני	<u> </u>	SURFACE W	בבע	renz Fo	Z I	DEMKAIG
	Distance (mile)	Population	2	Distance Weighting Factor	=	Subtote1		
	0-1/4		*	0.25	-			
	1/4-1/2		X	0.16	-			
	1/2-1		×	0.08	-			
	2-3		×	0.05	=			
	3-4		×	0.02	_			

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x 1 = (50max)

Total

## SURFACE WATER PATHWAY

									Factor
					-	(x)	Ref	erence	Velue
1.	Coes site	lie within a n7	100	-year or less	-	X	ج خ	<u></u>	<u>5</u> (5)
7.				ributable to the					$\sim$
	site at a	drinking wate	er is	ntake?	-				(20)
3.	. Is this a	sole-source	surf	ace water supply?	-				0 (10)
∢.	. Is a fish	ery (production	on) (	contaminated as a re	esult	ŧ.			
	of the sit	te, or is a f	lshe:	ry potentially impac	cted				
	within 15	miles as a te	esul	t of the site?					<u>O</u> (5)
≤.	. Is a recre	eation area c	onta:	minated as a result	of			•	
	the site.	or is a recr	eati	on area potentially				•	
	impacted (	within 15 mil	. 4	a result of the s	it•7_	X_	_		5 (5)
€.	result of	the site, or	is	v contaminated as a magnitive environments as a resu					
	of the si	te?	,25		-	X.	<u></u>	1 =	5 (5)
7.	Complete (		bna	sssign the bigher					•
				contamination of a					
		•		th TCL/TAL compound	ds				• .
	withi	n 15 miles as	4 E	sult of the site,					_
	ensve	r yes and ass:	ign (	factor value of 50	٥				<u>O</u> (50)
	• •	late potentia: r value as giv		pulation and assign below:	•				
	_				•				
1	No	NTAKES						i	
	Intake	Population	×	* Dilution Weighting Factor	-	Subt	otal		
	<b>0</b> 1		z.		-				
	<b>4</b> 2		×		•				
1		i i	_		1				

\* Use table on following page.

Total_	0	x_1 =	(50max)
		100	

## SURFACE WATER PATEWAY

# TABLE DILUTION WEIGHTING FACTORS

	Average Annual	
Surface	Flow in Cubic .	Assigned
Characteristic	Feet per Second (CFS)	Value
Minimum perennial stream	Less than 5 cfs	2.5
Small to moderate stream	5 to 50 cfs	0.25
Moderate to large stream	Greater than 50 to 500 cfs	0.025
Large streams to rivers	Greater than 500 to 10,000 cfs	0.0013
Major rivers	Greater than 10,000 cfs	0.0003
Ocean or the Great Lakes	Not applicable	0.0003
Mixing sone of quiet flowing rivers	Greater than 50 cfs	0.125
Lakes, reservoirs	Add and average CFS of	Assign value
	tributaries flowing into	to calculated
	lake/reservoir.	CFS figure using above factors.

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## ON-SITE PATENAL

		·	Factor	
		Yes Reference	Value	
1.	Is the site located in an area where people live or go to school within I mile of the source(s)? *If answer NO to Question 1, do not proceed with the remaining questions.	X _ 1 =	10(10)	
2.	Is there known contamination from the			
	site on residential or school property?		<u>Q</u> (15)	•
3.	Is site public use land or widely used land without barriers?	· · · · · · · · · · · · · · · · · · ·	<u>O</u> (10)	
4.	Complete (a), (b) and (c), and assign the			
	highest factor value: Which of the following are adjacent to site/sour or contaminated from the site?	:co(s)		
	(a) Schools, day-care (b) Parks, playgrounds, residences		<u>O</u> (15) <u>O</u> (10)	
	(c) National park, federal endangered species, other public-use lands.		<u>O</u> (5)	

5. Calculate population within 1 mile of the site, and assign factor value as given below:

Distance (mile)	Population	×	Distance Weighting Pactor		Subtotal
0-1/4	225	×	0.05	-	11.25
1/4-1/2	279	*	0.025	•	6.98
1/2-1	2186	×	0.0125	<b> </b> -	27.33

Total 46 (50max)

TOTAL OB-SITE PATEMAN VALUE 56 (100)

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## REFERENCE DOCUMENTATION SHEET

Ref.#	DESCRIPTION OF REFERENCE
1	E&E, SEPTEMBER 14, 1988, DRAFT STREENING
	SITE INSPECTION ROPORT FOR NAIMAN CONTINS
	CARAVAN COMPANY, CHICAGO, ILLINOIS.
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2	CLIMATIC ATLAS OF THE UNITED STATES, U.S.
	DEPARTMENT OF COMMERCE NATIONAL CLIMATIC
	CONTOR, ASHVILLE, N.C., 1979
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